**Write a Programs 1 to 10 :**

1. **W.A.P Given number is ArmStrong Number or Not**
2. **W.A.P to find Prime Number between 1 to 100**
3. **W.A.P Count the Total Number of Characters in a String Except Space**
4. **Program to print the largest element present in an array and Smallest element present in an Array**
5. **Program to count the total number of vowels and consonants in a string**
6. Program to print Following Pattern

1 2 3 4 5  
1 2 3 4  
1 2 3  
1 2  
1

1. Program to print Following pattern(pascal triangle)

1

1 1

1 2 1

1 3 3 1

1 4 6 4 1

1 5 10 10 5 1

1. W.a.p Sort the Array Elements(BubbleSort)

## 9)program to print the duplicate elements of an array

## 10) DESIGN APPLICATION BASED ON OOPS?

## Eg: 1, 2, 3, 4, 2, 7, 8, 8, 3

**Write a Programs 11 to 15 :**

**11)What is oops?**

**12)Difference between MethodOverloading vs methodoverriding?**

**13)Difference between this() vs super()**

**14)Difference between abstract and interface?**

**15)Difference between method vs Constructor?**

**Write a Programs 16 to 20:**

**16) RunTime polyMormorphism achieved by data Members**

**a)True**

**b)False**

**17)**  Composition represents

[**A** - HAS-A relationship.](javascript:void(0);)

[**B** - IS-A relationship.](javascript:void(0);)

18) Dynamic binding uses which information for binding?

[**A** - type.](javascript:void(0);)

**B** - object.

[**C** - Both of the above.](javascript:void(0);)

[**D** - None of the above.](javascript:void(0);)

18)

public class Test {

public static void main(String[] args) {

String x = "abc";

String y = "abc";

x.concat(y);

System.out.print(x); }

}

A)abc

b)abcabc

c)compilation fails

d)RunTime error

19) public class Test {

public static void main(String[] args) {

String s1 = "abc";

String s2 = "abc";

System.out.println("s1 == s2 is:" + s1 == s2);

}

}

**A)true**

**b)s1==s2 is:true**

**c)s1==s2 is:false**

**d)false**

**20)**

**interface Foo{**

**int x = 10;**

**}**

**public class Test {**

**public static void main(String[] args) {**

**Foo.x = 20;**

**System.out.println(Foo.x);**

**}**

**}**

1. Runtime error because Foo.x is final.
2. Prints 20
3. Prints 10
4. Compile Time Error